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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/826,626	04/05/2001	Kazuhiko Yamanouchi	9885-009-999	3980
7590 11/22/2004			EXAMINER	
Charles E. Miller			DEPPE, BETSY LEE	
Dickstein, Shapiro, Morin & Oshinsky				
1177 Avenue of the Americas			ART UNIT	PAPER NUMBER
41st Floor New York, NY 10036-2714			2637	
			DATE MAILED: 11/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/826,626	YAMANOUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Betsy L. Deppe	2637				
The MAILING DATE of this communication a	appears on the cover sheet w	rith the correspondence address				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a I - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi od will apply and will expire SIX (6) MO tute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 4,5,8 and 10-13 is/are pending in the day of the above claim(s) is/are withded 5) Claim(s) is/are allowed. 6) Claim(s) 4,5,8 and 10-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and complication Papers	rawn from consideration.					
 9) ☐ The specification is objected to by the Examination The drawing(s) filed on <u>05 April 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt The oath or declaration is objected to by the 	a) accepted or b) ⊠ objection accepted or b) objection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No received in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>April 5, 2001</u>. 	08) 5) Notice of 6) Other:	Informal Patent Application (PTO-152)				

DETAILED ACTION

Priority

1. If applicant desires priority under 35 U.S.C. 120 based upon a previously filed application, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet. The status of nonprovisional parent application(s) (whether patented or abandoned) should also be included. If a parent application has become a patent, the expression "now Patent No. ______" should follow the filing date of the parent application. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of the parent application.

If the application is a utility or plant application filed under 35 U.S.C. 111(a) on or after November 29, 2000, the specific reference must be submitted during the pendency of the application and within the later of four months from the actual filing date of the application or sixteen months from the filing date of the prior application. If the application is a utility or plant application which entered the national stage from an international application filed on or after November 29, 2000, after compliance with 35 U.S.C. 371, the specific reference must be submitted during the pendency of the application and within the later of four months from the date on which the national stage

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commenced under 35 U.S.C. 371(b) or (f) or sixteen months from the filing date of the prior application. See 37 CFR 1.78(a)(2)(ii) and (a)(5)(ii). This time period is not extendable and a failure to submit the reference required by 35 U.S.C. 119(e) and/or 120, where applicable, within this time period is considered a waiver of any benefit of such prior application(s) under 35 U.S.C. 119(e), 120, 121 and 365(c). A priority claim filed after the required time period may be accepted if it is accompanied by a grantable petition to accept an unintentionally delayed claim for priority under 35 U.S.C. 119(e), 120, 121 and 365(c). The petition must be accompanied by (1) the reference required by 35 U.S.C. 120 or 119(e) and 37 CFR 1.78(a)(2) or (a)(5) to the prior application (unless previously submitted), (2) a surcharge under 37 CFR 1.17(t), and (3) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(2) or (a)(5) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional. The petition should be addressed to: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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2. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on October 6, 1998. It is noted, however, that applicant has not filed a certified copy of the Japanese application as required by 35 U.S.C. 119(b).

Drawings

3. The drawings are objected to because Figure 5 is inconsistent with the detailed description (for example, see page 28, lines 7-19 and page 29, lines 7-13). Figure 5

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does not show an element for summing a delayed signal from a preceding delay element and the correlator output wherein the result of the summing is provided to the next delay element, as described on page 28, lines 11-14. Furthermore, although the disclosure describes summing the correlated signal with an output of a delay element on page 28, lines 18-19, Figure 5 does not show a summing means.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. Applicant is reminded of the proper language and format for an abstract of the disclosure.

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The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 5. The abstract of the disclosure is objected to because it should be a single paragraph. Correction is required. See MPEP § 608.01(b).
- 6. The disclosure is objected to because of the following informalities: the disclosure refers to cancelled claims on pages 6-15 and 63-65; on page 26, the sentence on lines 7-15 is grammatically awkward and difficult to understand;

on page 28, line 13, " c_1 - c_{14} " should be "DL₁ - DL₁₄" for consistency with Figure 5;

on page 28, line 18, "C15" should be "DL₁₅" for consistency with Figure 5; on page 28, line 26, "correlation" is misspelled; on page 29, lines 8 and 12, "DL15" should be "DL₁₅"; and on page 56, line 25, it appears that "ronization" should be "synchronization." Appropriate correction is required.

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7. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

- 8. The claims are objected to because of the following informalities:
 - a. in claim 4, lines 8-9, "said correlation output signal" should be "a correlation output";
 - b. in claim 4, lines 13-14, "an output of said correlator is connected to an input of each of said delay elements" is inconsistent with page 28, lines 11-14. According to page 28, lines 11-14, the output of the correlator is connected to a plurality of adders or summing elements wherein each of the plurality of adders or summing elements is provided to a respective delay element.
 - c. in claim 4, line 14, "and to" should be "and summed with" for clarification (see page 28, lines 18-19);
 - d. in claim 8, line 17, "divide" should be "divided";
 - e. in claim 10, line 9, "the time" should be "a time";
 - f. in claim 13, lines 5 and 6, "said spread signal" should be "said spread spectrum signal" (see claim 13, line 2);
 - g. in claim 13, lines 5 and 10, "dispreading" should be "despreading";
 Appropriate correction is required.

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Claim Rejections - 35 USC § 112

9. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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- 10. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 11. Claims 8, 10, 11/8 and 12/8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is unclear how to make and/or use the control means recited in claim 8, lines 11-18. The detailed description does not appear to describe a control means that generates a divided coded based on whether the peak of the correlation signal has been detected. Furthermore, it is unclear how the divided code generation differs based on whether the peak of the correlation signal has been detected. Therefore, one of ordinary skill in the art is not enabled to make and/or use the invention.
- 12. Claims 4, 5, 8, 10 and 11-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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- 13. With regard to claims 4, 5, 11/4,5 and 12/4,5, it is unclear what is meant by "in accordance with the order of arrangement" in claim 4, line 5 and claim 5, line 5.
- 14. With regard to claims 8, 10, 11/8, and 12/8, in claim 8, lines 11-18, it is unclear how the divided codes are differently generated based on whether the generation occurs before or after "a peak of said correlation signal is detected." It appears that the divided codes are generated in a "prescribed order" before and after peak detection. (See claim 8, lines 12 and 17-18)
- 15. In claim 13, it is unclear if "said communication equipment" on line 4 refers to one or more of the "at least two communication equipments" on lines 2-3.
- 16. In claim 13, lines 8-10, it is unclear how a spread spectrum signal processing apparatus recited in any one of claims 4, 5, 8 and 10 interfaces with or relates to the "synchronization detecting means" and/or the "despreading means" in claim 13, lines 4-7.

Conclusion -

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsy L. Deppe whose telephone number is (571) 272-3054. The examiner can normally be reached on Monday, Wednesday and Thursday (8:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272 - 2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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